

Do We Need a New Approach to Peace?

Moderator, GEORGE V. DENNY, Jr.

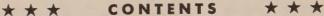
Speakers

DOROTHY THOMPSON CORD MEYER, Jr.

RICHARD LAUTERBACH DAVID OWEN

	(See also page 13)
	COMING
	February 15, 1949
Is T	here Any Defense Against Atomic Warfare?
	February 22, 1949
Sho	uld We Adopt a Compulsory National Health
Sho	uld We Adopt a Compulsory National Health Insurance Program?

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THE BROADCAST OF FEBRUARY 8:

"Do We Need a New Approach to Peace?"

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THE BROADCAST OF FEBRUARY 15:

"Is There Any Defense Against Atomic Warfare?"

THE BROADCAST OF FEBRUARY 22:

"Should We Adopt a Compulsory National Health **Insurance Program?"**

The Broadcast-Telecast of February 8, 1949, originated in Town Hall, New York City, from 8:30 to 9:30 p.m., EST., over the American Broadcasting Co. Network.

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number of bronchial blockers and endobronchial tubes have been developed. A brief discussion of the advantages and disadvantages of the various

types of apparatus is given.

The reasons for bronchial blocking set forth by the author are (1) to control secretions from the diseased part of the lung, (2) to produce a quiet operative field, and (3) to prevent mediastinal displacement. The only contraindication for bronchial intubation is a small airway as seen in children.

Good equipment, a sound knowledge of bronchial anatomy, unhurried preparation of the apparatus, and the selection of anesthesia are of utmost importance. The procedure of endobronchial intubation requires training and skill on the part of the anesthetist. When it is done well it provides safety for the patient and a quiet working field for the surgeon.

Lucille Watt, M.D.

Anesthesia-Reanimation in Intrathoracic and Cardiovascular Surgery (Anesthésie-réanimation en chirurgie endothoracique et cardiovasculaire).

JACQUES PIRARD. Acta Anaesthesiol. Belg., 1952, 3: 60.

A review of anesthesia reanimation methods employed at the Santy Surgical Clinic is presented, including operations performed from November, 1951 to April, 1952, with a chapter on cardiac reanimation. Controlled respiration eliminates paradox respiration and interferes least with the operator, permitting insufflation or depression of the lung as required at any moment. The closed circuit method with the Waters absorber is employed for intrathoracic, esophageal, and mediastinal operations; this reduces the chances of hypercapnia, pulmonary atelectasis, and fatigue of the right heart. Following such anesthesia it is necessary to re-establish and maintain the normal intrathoracic pressure by reinsufflation of the lungs, by siphonage, and by continuous aspiration via the thoracic drain. Normal spontaneous breathing is re-established by placing the Waters absorber outside of the circuit and decurarization with discreet doses of prostigmin.

In these operations anesthesia is induced with 5 per cent nesdonal followed by curare and intubation. It is maintained with nitrogen protoxide in concentrations not exceeding 50 per cent and successive re-injections of curare. No more fluid should be administered than has been estimated as lost. The average amount of blood transfused in 60 pulmonary operations was 1,050 c.c.

level is below the and test plasma in series of venesec identical amounts Forced fluids, anti oxygenation in a re the only pre-anest atropine. Inducti followed by a pro intubation. The ar closed circuit with trolled respiration. potentiates the cu kgm.), and the d necessary some wh be given toward average duration o

The treatment of cluding intrapleur ciency, and cerebra tion to the differe meningeal hemori heading of cardia with the proper a ferior vena cava paragraph is also tetralogy of Fallot well as the anesth ligation of the du operation. Disturb vented by intracar tive local anesthet 1/2 to 1 per cent sur and hyperthermia Repeated electrod cardiotonic hepari weeks, and aure stenosis of the istl used was nesdon which provides an clamping of the mortality in this se

Reanimation of of special interest during operation v due to asphyxia du cyclopropane anesting such anesthesia ous. Syncope may tion on the append as pericardial, myo

n deficit, as related n recognized only ortant in the open Furthermore, conwhich operation is pulmonary reserve, nore probable.

n of anoxia and the

s been shown that y ordinary means. ilarly valuable in of arterial blood resence of visible more accurate in-. With this appathe fall in oxygen icterus or anemia, thod, however, has be kept in mind. n oximeter is relaration. Variability determinations of not exceed ±5 per y of ± 3 per cent. a and operations y clinical signs, use the safe perform-

tients, particularly

and procedures are erial blood oxygen oximetric studies. that for maximum ares should contain used to supplement olonged pentothal administration did oxygen saturation und that the semiia produced signifion of arterial blood. this article. It is a Millikan or a Wood electronic potentiocolorimetric unit is and this gives conination of the percirculating arterial are presented to method of recordn interesting point tures should be employed. Although the most frequent disturbances in oxygen saturation during intrathoracic surgery are due to factors inherent in certain anesthetic drugs or methods of management, some surgical procedures may cause pronounced

alteration in proper oxygenation.

With the aid of an oximeter it is possible to remove successfully more than 50 per cent of the lung tissue. Such a case is presented in a 31 year old man with multiple congenital arteriovenous fistulas of the lung. The procedures, consisting first of a left pneumonectomy and then the removal of parts of all three remaining right lung lobes 8 years later, are reported. By properly using increased inhalation pressure during all periods of serious oxygen deficit the patient was safely carried through the necessary procedures.

LEROY J. KLEINSASSER, M.D.

Pentothal-Nitrous Oxide-Oxygen Anesthesia with Curare for Tonsillectomy. F. Van Nouhuys. Arch. chir. Neerl., 1952, 4: 95.

The author describes an anesthetic technique of pentothal nitrous oxide oxygen with curare for tonsillectomy. It consists of the usual premedication of 20 mgm. omnopon and 0.25 mgm. of atropine. On the operating table, the pharynx is sprayed with 10 per cent cocaine. After 1 to 2 minutes the required amount of pentothal in 5 per cent solution is injected, followed with 15 mgm. of curare.

Endotracheal intubation is performed with a Magill tube No. 8 which is connected to an anesthetic apparatus, the head is lowered with the Boyle Davis gag inserted, and a pack is placed around the endotracheal tube directly above the glottis. Then from 4 to 5 liters of nitrous oxide and 1 liter of O₂ are used in a semiclosed system, with no absorber, throughout the tonsillectomy. For some patients, a small amount of ether was added. On completion of the operation the patient quickly regained consciousness; in most cases he talked immediately, coughed and responded. Two hundred and twenty cases without complications of any kind are presented.

The author believes that local anesthesia for tonsillectomy may be the ideal method for many surgeons, but for most patients it is psychologically unsatisfactory. The advantages of general anesthesia are: (1) less violent wound reaction, (2) less postoperative pain, (3) cardiac patients do better under general anesthesia; (4) there is less likelihood

tate of intravenously infused isotonic saline, in three tests the extracellular fluid volume 1 hour after the end of the infusion remains unchanged. In 17 tests the expansion of the extracellular fluid volume ranged from a fraction to double the quantity of saline solution infused. The data revealed that in 1 hour the saline solution may enter the intracellular compartment to a variable extent or may cause sodium chloride and water to shift from that compartment to the extracellular compartment. Anesthesia caused expansion of the extracellular fluid volume in 7 of 14 patients, while in 3 patients the extracellular fluid volume decreased by 8 to 16 per cent of the control values.

ALLAN D. CALLOW, M.D.

Infusions via the Bone Marrow and Biopsy of the Bone and Bone Marrow. Arthur B. Tarrow, Henry Turkel, and Milton S. Thompson. Anesthesiology, 1952, 13: 501.

The advantages and disadvantages of trephine technique for bone marrow infusion and biopsy, with the use of Turkel needles, are discussed. The use of this technique may be life-saving and should be utilized as an alternative method when it is impractical to employ the peripheral vein route. It is useful in cases of circulatory collapse, when veins are poorly accessible, when veins cannot be used because of thrombosis or burns, when there is insufficient time to do a cut-down, and when continuous infusions are contemplated for several days. The more serious disadvantages of bone marrow infusion are as follows: osteomyelitis may develop if the site of puncture is contaminated; positive pressure may be painful if the patient is not under anesthesia; the sternum may be penetrated; and mediastinitis may result.

The technique is described for biopsies or infusions (or both) of the sternum, tibia and femur, iliac crests, and vertebral bodies. Stress is placed on the need for sterile technique to avoid infection. When the body of the sternum is to be used the puncture should be made 3 cm. from the manubriosternal juncture. If the manubrium is to be used, the puncture should be made approximately 2 cm. from the same junction. The tibial or femoral puncture is the preferred route for children under 5 years of age. Here care must be exercised to aspirate the marrow contents to avoid air passing directly through the large nutrient veins into the general circulation.

MARY KARP, M.D.

There is no part, as long as anoxia a of administering the precise, and delicithat may become way is obviously of

The postoperat' guarded and respir. If the patient is untions, catheter aspir

The author prefivery poor risk pat quired cyclopropan mal doses of curare risk he prefers to tion, and anesthesi ministration of 50 p with repeated dose

Anesthesia and Shund Schock be JASINSKI. Helve

Clinical observat clusion that relatio on the one hand, a anesthetic difficult number of mostly r esthesia occurred in had iron deficien hemorrhages.

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The results show peated slight losses to produce anemia More anesthetic was mals to reach the samals were also more by acetylcholine. Collection ble shock following animals tolerated results.

The effect of adre formation of any de ENNETT, JR., M.D.

Irome, Its Preven-VID M. LITTLE, JR., ARY LOUISE WHITE.

aeric term used to of oxygen in the I findings are preshis lack of oxygen. one of the major classifies asphyxia signs. The fundaplete atelectasis of produces a decrease d an increased tenked increase in lacdrogen ion concenecome evident that this condition may , mage to the central sequently be manihed ability to learn, e, the problem of one of resuscitation neurologic damage. fome involves proh and intrapartum ce of situations in syndrome are called , parity, and health m plasma, immatuand position of the duration and type , and the analgesic loyed. Postpartum gentle resuscitation eans of direct or in-Oxygen must be warmth maintained riod and thereafter. to a fair extent by the newborn infant his way gastric conaspirated into the piration of all newction was attempted the authors and a

ant mortality rates

and Mario Gaudino. Anesthesiology, 1952, 13: 374. The administration of isotonic saline orally or parenterally to normal individuals results in a sluggish and highly variable excretion of salt and water. This abnormal excretion is exaggerated in the postoperative state and occurs in the presence of normal renal function. It is now known that neither sodium nor chloride is confined to the extracellular fluid and consequently it may be inferred that after the administration of a saline infusion a variable quantity of sodium chloride and water may shift to the intracellular compartment. Utilizing inulin as a substance of reference, the authors have attempted to determine the fate of intravenously administered isotonic saline solution in nonoperative subjects, as well as the effects of anesthesia upon the distribution of body fluid and its effects upon the fate of saline solution. The authors utilized a combination of the "total recovery method" together with a modification of the calibrated-infusion-and-calculation-bydifference method to permit a dual method of checking the inulin space before and after saline infusion. Para-aminohippuric acid (PAH) was included in the inulin infusion in order to permit the determination of the renal plasma flow.

An inulin solution of accurately known composition was infused at a constant and controllable rate. After uniform distribution of the inulin had been established, 2 or 3 liters of isotonic saline solution were infused at rates ranging up to 40 to 60 c.c. per minute, the slow infusion of inulin and collection of urine continuing throughout this period and for 60 to 120 minutes thereafter. Homogeneous redistribution of the saline and inulin was assumed to have

occurred at the end of I hour.

Eighteen unoperated subjects were studied with respect to the immediate fate of saline solution. Fourteen additional subjects were studied with respect to the effects of anesthesia. The anesthetic agents studied were cyclopropane, ether, or pentothal in combination with nitrous oxide and oxygen. No fluids were given intravenously during anesthesia and operation except for the administration of 2.5 per cent sodium pentothal solution.

The data given by the authors show that saline solution suffers a highly variable fate in the body, sometimes passing entirely into the intracellular compartment and sometimes causing the withdrawal of fluid from that compartment in amounts exceeding the volume of solution administered. Inasmuch as the plasma sodium concentration showed little bandage could not be induced until the exposed popliteal artery had been repeatedly moved about in various directions. Suddenly a powerful stream of blood spurted forth. Now the lumen of the popliteal artery was found to be opened for a distance of about three-fourths of its diameter. The artery was ligated above and below the damaged area; gangrene did not develop and the patient recovered.

On the basis of these experiences the author wishes

to emphasize the following points:

1. That the secondary bleeding usually occurs from 10 to 15 days after the injury; in a few instances it occurred before the tenth day and in a few others, after 2 months.

2. That the hemorrhage occurs predominantly in the night time and tends to recur 2 or 3 days later, unless, of course, proper treatment is instituted.

3. That there is no reliable premonitory sign

whereby the bleeding can be anticipated.

4. That gunshot wounds must be guarded from the development of suppurative processes as such secondary infectious processes may errode an entirely normal and uninjured arterial wall. The author mentions that proteolytic ferments may be developed by the injured tissues of the wound itself.

5. That the first appearance of secondary hemorrhage should be regarded as an indication for radical

surgical measures.

6. That the best treatment for this form of secondary hemorrhage is ligation of the injured vessel.

7. That in the prophylaxis of secondary hemorrhage the greatest importance is to be placed upon the proper and the radical primary treatment of the wound.

John W. Brennan, M.D.

Prophylactic Treatment of Tetanus, with Special Attention to Active Immunization (Beitrag zur Tetanusprophylaxe unter besonderer Beruecksichtigung der aktiven Immunisierung). A. MOEHLENBRUCH. Chirurg., 1952, 23: 357.

Serum shock, serum sickness, and serum polyneuritis are the drawbacks of prophylactic administration of serum against tetanus. Tests for serum protein sensitivity and for allergy cannot always be performed when first aid is rendered. The employment of protein-poor sera which contain chiefly gamma globulins gives encouraging results in this respect.

The author advocates replacement of the prophylactic administration of serum (popular in ence of strains also; are reporting the in 13 months from Jar In addition, the st mycin, terramycin, sidered.

Of 915 strains of from inpatients du 1, 1951 and Febru resistant to penicill 72 (7.9%) to aureo chloramphenicol.

All the strains rewise resistant to teleight per cent of the cillin, and 66 per cent of these strain tal. The first strain tal. The first strain tal. Subsequently the shospital cross-infect

A survey of the roof the hospital state carriers of staphyl carriers, 8 were car 47 per cent were resistant strains, an mycin-aureomycin of one particular pl

There was a close tribution of phage the strains from the staff.

Development of P. tions During J. Am. M. Ass.,

Eight case histor the relative import monas in the produ may arise during ar tious diseases.

In one hospital the same period of time increased from 15 organisms are of incisolated in pure culand Pseudomonas as survive the attack antibiotics.

rd burn injury has retality in the comthe mortality ine burn alone to 75 roentgens of total to 20 per cent with otal body gamma-

that a bacteriemia and lly burned as well ated. This appears the group receiving in only one animal. It thermal and radifolood of nonhemolowed by invasion a fatal septicemia dappears likely that the thint where they are reprococci at the

Inicillin therapy in fer experimental aniormal and radiation sion of this therapy os, and provides the duce the mortality certernal body radiasyliven in this study.
I studies and results used with those in an all body radiation with such amounts overwhelmed, and lo erapy is much less grant provided the state of the state of

g Gunshot Wounds vaev. Chirurgia, Sofia,

to hage after gunshot the case, that of a 21 his ded himself with a a assed through the parietas tibiae without ct. ys later, when the tident, the patient ar from the wound of

the leg had to be amputated above the knee.

In the second case, a 41 year old male was wounded by an army rifle in the left infraclavicular region. The bullet lay in the area of the left shoulder joint. When examined, 5 days later, the ragged wound in the left infraclavicular region was exuding pus and there was a moderate rise in temperature. Despite the administration of sulfonamides the temperature did not fall and the exudation did not decrease. On the ninth day after the injury, about 3 hours after midnight, the patient began to hemorrhage and died before arrival of the physician. Autopsy disclosed the fact that it was the subclavian vein and not the artery that had been damaged.

In the third case, a 46 year old male was wounded by an army rifle, the projectile traversing the upper part of the leg. In addition to the soft tissue wound there was evidence of fracture of the fibula. The limb was dressed and placed on a Braun splint. Four days later the area of the wound assumed a dark bluish swelling and evidenced a definite pulsatory movement. The swelling continued to increase and on the tenth day, despite tamponment of the wound and a pressure dressing, about 3 o'clock in the morning, a severe hemorrhage occurred. An Esmarch bandage was applied and the patient was immediately sent to surgery. The hemorrhage was found to issue from the tibialis anterior artery. This was ligated. The swelling was found to be composed of coagulated blood and in communication with the damaged artery.

In the fourth case, a 32 year old male received a wound from a mine. The wound was located in the lower third of the thigh. The roentgenologic examination disclosed a portion of the mine mechanism embedded in the soft tissues of the popliteal area. This was removed; it was 2.2 cm. in length. Two days later the patient complained of violent pains in the area of the wound; the thigh began to swell at this point. The local temperature was increased and the body temperature between 38 and 30°C. The wound began to discharge purulent material. Penicillin (30,000 Oxford units every 3 hours) was given, but the suppurative discharge continued and the general condition of the patient deteriorated. Ten days after the beginning of the penicillin treatment, at about 4 o'clock in the morning, the patient experienced a violent hemorrhage. An Esmarch bandage was applied and the patient was sent to surgery. At operation the musculature had the appearance of cooked meat and was quite friable. important feature of therapy is the surgeon's suspicion that a devascularizing injury may have occurred. If extensive necrosis is anticipated, the area should be incised generously and treated as an open case. If there is some question as to whether necrosis will occur, hematomas should be evacuated through one or more small incisions. Light pressure dressings should be applied, and the wounded part kept under careful observation. Subsequent sloughs and cases of gangrene of the skin in cases in which the injury was seen late should be subjected to excision of the devitalized skin and early grafting.

BENJAMIN F. LOUNSBURY, M.D.

Burns: An Annotated Outline for Practical Treatment. Francis D. Moore. Med. Clin. N. America, 1952, 36: 1201.

The author presents an excellent classification of burns and delineates in detail the treatment of minor burns through extensive body burns. He points out that the treatment of an extensive body burn requires a surgeon to exert himself to the utmost, both physically and mentally, and that an extensive body burn involves a valid understanding of sweeping physiological changes in salt and water balance, respiratory physiology, cardiovascular dynamics, bacteriology, endocrinology, and nutrition. In presenting the selection of cases for treatment, a striking contrast in the problems involved at the two ends of the burn spectrum is described in concise annotated sentences. The problem of respiratory emergencies resulting from severe burns is particularly emphasized. The concept of discontinuing the use of one antibiotic after a few days' therapy and substituting another, and still another later on, is mentioned.

In the repair of burns, the "golden moment" is described as the first moment at which débridement of part or all of the burn can be safely done, and at which time grafts can be placed. When the subcutaneous fat appears relatively normal without infection and the folly of exuberant granulations has not been allowed to interfere, then, if blood volume is normal and the intake and output good, the "golden moment" has arrived.

The early resumption of ambulation after covering flexor and extensor surfaces of joints will improve the patient's morale and general condition. The final closure by "patch work" grafting of residual open areas, preferably left in areas where contracture will will always find a salways enough circultive transport of oxplood cells are respondingly, the author do blood in the acutel Hemoconcentration, indication to transf

Serum and plasm that they produce the risk of infection has been found exposmotic pressure in utmost importance. large quantities, m toward reactions; if given in adequate definition that the treatment and patients.

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The Influence of E Mortality from BROOKS, EVERET, JR., and J. Doug 533.

Thermal injury problem following the shima and Nagasakes onal observation, medical scientists, attacks the bomb vition and malnutrition the mortality there make it difficult to mal injury alone.

This study, there pens in the expering inflicts at the same to minor external body minor that each, who nonlethal—all of the better the fundamen

and tenderness, was articularly in cases ative corticotropin eyed, is a potential ministration is proabrupt. The presd probably also of ; of the gastrointcontraindication to Jrtisone; these horla in patients with Fith "hypersensitive tion of these hori In postoperative Hin was thought to brenal function. To of thyroid crisis by in seemed justified lation was available cropin and cortisone ctablished anticoagto of venous clotting, tit. The authors bethe utilization of bre therapy of postof the systemic manigally severe. Their rsways secondary to c. Clinically at least, ad that the hormones esponses or with the see an infection while cal measures were ri and cortisone were an agement of lower of operative shock r effects were equivlebe made regarding gin and cortisone in ction against nongonvalescence of imvee treatment of pai xhaustion.

tri the absence of retrial cortical function hotus and the cortical of these hormones is it avoided except for cr. appropriate condiiroblems involved. at D. Callow, M.D.

and direction of movement from the patient's hand. The almost instantaneous resolution of this situation results from the ring's remaining in the grasp of the snagging object and avulsing the whole of the digital skin. The skin carries with it all of the subcutaneous fat, the nerves, and the blood vessels. In extreme instances the cuff of soft tissue is entirely dissected off; in others, a small pedicle remains to provide varying degrees of blood supply to the avulsed skin. Because the bony structure and tendons of the digit are spared, every effort must be made to save the finger.

The treatment depends entirely upon the degree of injury to the avulsed skin. When little or no blood supply remains the decision as to what to do with the flap is simple; it must be detached and the denuded digit buried beneath the skin and subcutaneous fat of the abdomen or forearm. The authors emphasize the dangers of being too conservative with flaps of questionable viability. Subsequent necrosis of the flap with infection and destruction of the underlying bone and tendon will render salvage of the finger impossible. The flap which has an adequately wide pedicle, especially if it contains a digital artery. may be used to cover the tendon and bone. Thorough wound toilet and removal of loose fatty tissue are essential. Since the prevention of venous stasis is almost as important as a good arterial supply, pressure dressings are also essential. Other therapeutic items include the use of ice packing to the arm to lower the metabolism, antibiotics, elevation of the arm, and adequate medication for pain.

BENJAMIN F. LOUNSBURY, M.D.

Friction Injuries Following Road Accidents. C. C. SLACK. Brit. M. J., 1952, 2: 262.

This interesting article presents one phase of the trauma of road accidents that is often not fully appreciated, namely, the fact that friction can pull the skin so far from its vascular attachments to deep tissues as to sever those vessels. The usual mechanism for friction injuries in road accidents is that a wheel passes over an extremity which is in contact with the ground or other firm underlying surface. Since the skin can readily slide over fascia and muscle, whereas the whole extremity cannot slide commensurately beneath the wheel which has impinged on it, the skin does yield to the rotary movement of the tire and travel with it for varying distances. In severe instances of such torsion the skin is avulsed and an open wound is produced which can

fore it must also have pedicled grafting when it has been exposed. The authors report 2 cases of defects

in the posterior part of the lower third.

For many reasons the pedicled grafting of defects of the skin of the leg should be done in one stage. Traditionally, this has involved a flap from the opposite thigh. Surgeons have avoided taking a flap from the opposite leg because the blood supply of such flaps is poorer than that of flaps from the thigh. However, the authors have had success with leg flaps when a wide base was maintained with relatively short length (in a ratio of 2 to 1). The base of the flap is in a vertical plane on the posterior or posteromedial aspect of the sound calf. The free border of the flap is cut just medial to the border of the tibia. Obviously, anterior defects cannot be covered by this method, but for posterior defects of suitable size and location this type of flap has many advantages over the cross-thigh flap.

BENJAMIN F. LOUNSBURY, M.D.

The Effect of the Intravenous Administration of Procaine on Postoperative Sickness (Erfahrungen mit intravenoesen Novocaingaben bei der postoperativen Krankheit). R. VARA-LOPEZ. Chirurg, 1952, 23: 360.

Postoperative shock and grave postoperative disturbances are being treated by the author with pro-

caine administered by intravenous drip.

In addition to losses of blood plasma and erythrocytes, nervous, toxic, and other stimuli play a role in the development of so-called postoperative sickness. The operative trauma exerts an influence on the autonomic centers and produces functional changes in the diencephalon, which in turn affect the hormonal system within the hypophysis and the suprarenal glands and provoke Selye's alarm reaction.

Destruction of tissue by the operative trauma leads to disturbances of the intermediate metabolism in the affected areas, with liberation of certain amines, so-called noxines. The latter affect the capillary permeability which leads to the formation of exudates, with resulting impairment of the diffusion of oxygen between the capillaries and the cells. Noxines are also responsible for vasodilating reflexes and capillary lesions which are important factors in the development of postoperative sickness.

Intravenous procaine infusions were employed in the treatment of postoperative shock which developed in 26 patients following extensive operations There is no dang

Observations on the and Cortisone Postoperative Szilagyi, R. R Jay, III. Arch.

As a result of nu itary-adrenocortica experimentally and and occasionally d ulation of electrol fat metabolism, of reaction, and of the tems of the body. of the body is at alfunctioning of the the adrenocorticotro may serve a purpos defense of the bod varieties. One may is equivalent to a upon the body as a the pituitary-adren tration of one or a cortical hormones surgical stress react

The pituitary-ac cortisone may be used a problems for enhance the effection of the organism as and one may attencific pathologic presucceptible to the authors recognize to do of study and a truly rational trecognition of the functional insufficient

therapy.

Corticotropin was cases and cortisone found of absence of ticotropin was adm 100 mgm. divided i jections, while the to 300 mgm. given to 100 mgm. daily.

m52, 32: 171.

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Ints suggesting that leften fatal, dogs had tin 7.0 and 6.7 over d with only slight i finite bradycardia, de period under obb's per se, therefore, then combined with Mere often present in Ith more importance. Wich had been bled bypotension and b yocardial ischemia. bidden change in pH apneic animal sudtrlso studied. There fatricular fibrillation "ent of the animals Fryhen controlled by itsat death; however, Adrevention of death Centration of carbon

sclear, since hyperto normal carbon ally common occurcorrelation of these clac arrest has been thecedure the authors enting respirations to thesia and the preperson dioxide conperson M. Unger, M.D.

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number of pathoite differentiated in a ria as it occurs after

injection of human albumin has been studied by a number of men; however, in spite of many clinical experiences, little has been published about the time the injected albumin remains in the circulation and about its final destiny.

The author studied this question in two groups of patients: 7 suffering from nephrosis, and 6 with various chronic diseases without albuminuria.

The tests included total blood protein, serum protein, and colloid osmotic pressure; and total nitrogen

as well as urea nitrogen in the urine.

In all 7 patients with nephrosis, the serum albumin returned to the original level within 6 to 8 hours after a single intravenous injection of 10 to 20 gm. of human albumin. The injected albumin was excreted in the urine completely after a latent period of 2 or 3 days. Also, when albumin was given daily for a period of 4 to 5 weeks the excretion of albumin rose parallel to the injection, and it was not possible to influence the level of serum albumin. Only in one of the 7 cases did the serum albumin level rise after the fourth injection of 20 gm. human albumin, and did the loss through the urine decrease simultaneously.

The picture was different in the six cases without albuminuria. Also here the total blood protein, serum albumin, colloid osmotic pressure, and plasma volume returned to the original level 6 to 8 hours after albumin injection. However, in daily continued injections the urine nitrogen did not increase. This proves that the infused albumin was stored in the body in patients with unimpaired kidney for interest.

The author concludes that in nephrosis intravenous albumin therapy is ineffective and should be discouraged. On the other hand, in cachectic states due to chronic disease like osteomyelitis or tuberculosis, human albumin therapy should be tried if the condition is accompanied by chronic hypoproteinemia. Whether the retained albumin is stored or utilized for formation of cell protein has not yet been decided.

The author used human albumin in a series of 60 patients. Side effects were rare and mild in all but 1 nephrotic patient who reacted with shock and circulatory collapse. Symptoms of allergy were not observed in any case.

WERNER M. SOLMITZ, M.D.

The Use of Posterior One-Stage Pedicle Flaps of the Lower Leg. O. Wickstrom and J. R. Connelly. Plastic & Reconstr. Surg., 1952, 10: 6.

In extensive injuries of the leg in which loss of skin has been sufficient to require some type of grafting, The author reports 2 cases of tumor of the small bowel in which the tumors were demonstrated by preoperative roentgen examination. During barium enema study, both tumors were demonstrated by retrograde filling of the small bowel. Both lesions proved to be lipomas arising from the submucosal layer. One was located about 10 cm. proximal to the ileocecal valve, the other, in the base of a Meckel's diverticulum, about 60 cm. proximal to the ileocecal valve. Neither had produced obstruction although there was intussusception in the latter case, and whether this was produced by the tumor or the invaginated Meckel's diverticulum is not known.

The author again stresses the importance of repeated mouth meals, small intestinal enemas, and retrograde filling of the distal small bowel in any case with unexplained bright red blood in the stool.

The long life history of benign tumors of the small bowel is clearly demonstrated in these cases.

In Case 1, the patient was a white male, 40 years of age, who first noticed bright blood in his stool 2 years previously. The clinical study was negative except for a few small internal hemorrhoids and a small rounded filling defect in the terminal ileum observed on roentgen examination of his gastrointestinal tract. At operation, a typical lipoma 3.5 by 2.5 by 2.5 cm. was found.

In Case 2, a white male, 48 years of age, had intermittent discomfort in the right lower quadrant, and a 6 year history of bright blood in the stools. Clinical study revealed a moderate anemia and a filling defect in the small bowel, the latter a tumor mass plus an intussusception.

NORVAL F. ZIMMERMAN, M.D.

Cystadenoma of the Pancreas. A Report of 2 Cases Showing Calcification. ROBERT S. HAUKOHL and ABRAHAM MELAMED. Am. J. Roentg., 1950, 63: 234.

The authors describe in detail the hospital course of 2 females with cystadenoma of the pancreas. One patient died in shock postoperatively and the other survived without event. The true incidence of this relatively rare tumor is not known. Brunschwig estimated that about 50 cases had appeared in the literature up to 1942. Eleven additional cases can be found since then, which, including these cases, makes a total of 63 cases reported in the literature to date.

adenocarcinoma, will a more solid and par tumor will recur if By roentgenological distortion of surrous stomach, duodenum ureters, the localizat direct demonstration reported, which shot paque and rather dis-

A discussion of the in the roentgenogram

Carcinoma of the Te Report of 2 Case JOHN O. LAFFERT Am. J. Roentg., 15

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The danger of d stressed, and the au testes if they cannot in which they can b and frequently.

Roentgen Diagnosis the Internal Sex Roentgendiagnost kungen der inne WERNER STAEHLI 72: 202.

The author discussimportance of roents i.e., the seminal vest His experience is bagrams.

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tre lung are more the lung are handle hands reas when umbradil of thyl cellulose is used. on e of carboxymethyl rsi v dvantage restricting rsi vidvantage restricting its. 1 he injection is made. adi r. T. LEUCUTIA, M.D.

Ate unnar Jönsson, Bror gi C Acta radiol., Stockh.,

rully rocedure in angiogala Drocedule and older children and victor characters, victor the intrathoracic lee c method of Chavez, great heart, and on that grant heart, and gally, the patient was we'p better, however, to use he is under contrl'ndly because general tt in instances. The autt instances. hd; and inject the conout cixto af li

	vein	
Aorta in adults	Through radial artery	Pulmonary artery
(a) Patent ductus		Middle part of as- cendant aorta
(b) Coarctation		Just below origin of innominate artery

Projections. Roentgenograms are taken in at least two planes at right angles to each other (true frontal and lateral views).

Position of catheter. The tip of the catheter should lie in the cardiac chamber or vessel to be examined. The right auricle does not represent great interest from the point of view of angiocardiography. The right ventricle, however, is very important since it forms the site of some of the most common congenital malformations. The ideal thing would be to have the tip of the catheter in the center of the ventricle but this is difficult to realize, unless the catheter is inserted through the jugular vein. The authors prefer the cubital vein, and use a No. 8 or No. 9 French catheter. Fifty to 70 c.c. of a 70 per cent umbradil (diodrast) solution are injected in 3 to 4 seconds. There is no satisfactory method as yet for the examination of the left auricle and ventricle, although it is possible to insert the catheter occasionally into them through the aorta.

The above scheme is suggested for visualizing the chambers of the heart and the great vessels.

In cases of coarctation, the catheter can be replaced by a cannula inserted through the right common carotid artery. In these cases a 50 per cent solution should be used. T. LEUCUTIA, M.D.

The Roentgenogram After Pericardiectomy (Das Roentgenbild nach Pericardektomie). H. ANACKER. Fortsch. Roentgenstrahl., 1949, 72: 173.

Proliferation of fibrous tissue is often a sequel of pericarditis. In the course of years, calcium is deposited in these adhesions which often encircle the heart like an armour and impede its action. This pericarditis calculosa causes severe symptomsdyspnea, cyanosis, and ascites. Pericardiectomy is successful and often lifesaving in these conditions.

The author reports on 4 pertinent cases and discusses the roentgenogram and kymogram before and after the operation.

be avoided by using a catheter that can be introduced without dilating the artery, ordinarily a French

catheter, No. 8 or 9.

2. Difficulty in directing the catheter to the aorta, prolonged manipulation of the catheter constituting a risk for arterial spasm. The tip of the catheter may enter, or may be caught at, the point of origin of branches arising from the axillary and subclavian arteries, and especially at the point of origin of the vertebral artery. These complications are overcome by rotating the catheter and thus altering the direction of its curved tip, by raising the arm of the patient in an upward direction, and by pressing the hand firmly on the axilla, or the thumb on the supraclavicular fossa.

3. Difficulty in bringing the tip of the catheter into the correct position. The tip should not be placed too low when it can glide into the coronary artery, or too high when, owing to the increased pressure of injection, it has a tendency to straighten out and thus can be flung over into the descending

aorta.

In performing thoracic aortography with a cannula, it is important that the cannula be pushed right down into the aorta. This can be accomplished by introducing the outer cannula into the aortic arch

with the aid of a guide thread.

In thoracic aortography, a not inconsiderable amount of contrast medium passes through the carotid arteries into the cerebral blood vessels. In one of the authors' cases the innominate artery instead of the aorta was injected by mistake and the patient developed epileptiform seizures and hemiparesis lasting for 4 days. In the majority of the cases 50 c.c. of a 70 per cent solution of umbradil were used for the injection, but in view of the possible cerebral complications the concentration has now been reduced to 50 per cent in coarctation of the aorta where the risk is greatest.

The injection is done with the aid of a specially constructed pressure apparatus at the rate of 50 to 80 c.c. in 3 to 5 seconds. The roentgenograms are taken by using an automatic cassette changer which permits the exposure of one pair of films per second (in the anteroposterior and lateral views). A rate of 3 pairs of films per second and an exposure under

electrocardiographic control is desirable.

T. LEUCUTIA, M.D.

chiectasis of the lobd The author's discureview of the early spathomechanics of by paper is a considerat bronchial dilatation

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M. SOLMITZ, M.D.

Arterial Catheterizastatic Tumor in the STIG RADNER. Acta

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catheterization 8 to 10 c.c. of a 2.5 per cent solution of papaverin hydrochloride are injected intramuscularly, in adults, to prevent arterial spasm. In the lower ages, this dose is reduced correspondingly. Morphine is given prophylactically for the transitory pain caused by the injection. Under local anesthesia the radial artery is exposed in the proximal part of the forearm. Two ligatures are placed, the lower one tightly and the upper one loosely. A small incision is made between the ligatures, the upper being drawn to close the artery temporarily. A ureteral catheter is then inserted through the incision and guided under fluoroscopic control into the subclavian artery. In adults usually a French catheter, No. 6 to 9, is used. After the catheter reaches the subclavian artery a sphygmomanometer cuff is placed on the arm and insufflated to a pressure slightly above the systolic blood pressure. A dose of 15 c.c. of a 35 per cent solution of umbradil (astra) is injected rapidly and two roentgenograms are made, one at the end of the injection and the other 3 or 4 seconds later. After the withdrawal of the catheter the upper ligature is removed. No vascular disturbances have been observed from tying off the radial artery.

One illustrative case is briefly presented and the respective roentgenograms are reproduced. The subclavian circulation was successfully visualized together with a walnut-sized system of pathologic vessels due to the presence of a metastatic tumor in the upper part of the thorax. The method so far has been applied only in one case, but its further use is intended.

T. Leucutia, M.D.

Thoracic Aortography. Observations on Technical Problems Connected with the Method and Various Risks Involved in Its Use. Bror Brodén, Gunnar Jönsson, and Johan Karnell. Acta radiol. Stockh., 1949, 32: 498.

In 1948 the authors reported a technique for thoracic aortography which is an extension of the technique developed by Radner. The contrast medium is injected through a heart catheter inserted into the aorta via the radial artery in the right forearm. This technique has proved to be of value especially in the patent ductus arteriosus (Botalli) where it is advisable to inject the contrast medium as close as possible to the aortic orifice. For cases

moreover, much of the material is wasted via this route. The author reports that the intraduodenal instillation of mixtures of amino acids and polypeptides proved to be eminently satisfactory on several occasions.

Continuous suction applied to an indwelling stomach tube was followed by recovery in a patient in whom, subsequent to severe burns, a Curling's ulcer developed, with massive hemorrhage and acute perforation.

DAVID H. LYNN, M.D.

Nicotinic Acid and Epinephrine Test for Determining the Source of Blood Supply of Delayed Skin Flaps. G. A. Olander. Plastic & Reconstr. Surg., 1950, 5: 58.

The author presents the following test as a simple means of determining the source of blood supply to a delayed flap as an aid to the surgeon in planning

his operative steps.

The patient is given 500 to 1,000 mgm. of nicotinic acid orally, which produces a flush in about 15 to 30 minutes and usually disappears in 1 to 2 hours. A 1 to 30,000 solution of epinephrine in ½ per cent procaine, prepared by mixing 1 c.c. of 1 to 1,000 epinephrine in 30 c.c. of ½ per cent procaine, is then injected around the margins or the base of the flap, starting just below the derma and carrying it down to the fascia, thus producing a diffuse infiltration of the area which could contribute blood supply to the

at this area.

2. If no blanching the flap, it can be a dependent circulation

3. If blanching dod or more, depending u be assumed that colla degree is occurring at

4. If injection of the plete blanching of the skip areas of blanchinit can be assumed that is coming through the adequate. The convetrue.

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The author has used that it has been reliable transfer of flaps. No a were noted except in carried out too near t

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Lealing rate of wounds Ne local anesthesia was the wounds was used trate.

tire made in skin that heer cent procaine and Dent saline solution. Milich the wounds were Cardiac Resuscitation, Ventricular Defibrillation (Résurrection cardiaque, défibrillation ventriculaire). P. SANTY and P. MARION. Lyon chir., 1950,

Experiments on dogs and thoracotomies in man,

performed on account of syncope in the course of operations, show that cardiac arrest assumes one of the following three aspects: (1) progressive dilatation of the cardiac cavities with a final arrest in diastole, (2) sudden ventricular fibrillation, or (3) cardiac arrest in systole, a rare occurrence.

In a child, 2 years and 10 months old, with the tetralogy of Fallot and left aortic arch, the heart stopped beating in diastole in the course of Blalock's operation. The acute dilatation of the heart lasted 5 minutes before massage of the ventricles and an intra-auricular injection of adrenalin and coramine

resuscitated the organ.

In a man, aged 23 years, with the tetralogy of Fallot, ventricular fibrillation occurred at the beginning of Blalock's operation. Two electric shocks were given by placing one electrode upon the right ventricle and the other upon the left, and employing a current of 132 volts and 1.8 amperes. The fibrillation ceased immediately. Systolic contractions were re-established but, in spite of cardiac massage and repeated injections of coramine, adrenalin, and ouabaine, the patient did not recover.

Two methods have proved their value in the prevention of ventricular fibrillation: pericoronary infiltration with novocain and intramuscular injec-JOSEPH K. NARAT, M.D. tion of cocaine.

SURGICAL INSTRUMENTS AND APPARATUS

Some Uses of the Stomach Tube in Plastic Surgery. H. J. RICHARDS. Brit. J. Plast. Surg., 1950, 2: 278.

The author has found nasogastric intubation to be of distinct value in the management of certain conditions requiring plastic surgery. Two cases of orocutaneous fistula are presented in which closure of the defect by means of an acromiothoracic tubed pedicle was facilitated through the agency of an indwelling gastric tube. Gavage curtailed salivary drainage and prevented secondary infection of the graft. Perioral skin grafting in a child 16 months of promptly to the systemic administration of bacitracin, the authors believe this to be the treatment of choice in this disease. Surgical excision should no

longer be employed.

The recommended dosage of bacitracin is 400 units per kilogram of body weight every 6 to 8 hours. Daily urinalyses and frequent determinations of the blood urea nitrogen or nonprotein nitrogen should be made.

S. LLOYD TETTELMAN, M.D.

ANESTHESIA

Combined Brachial Block and Spinal Analgesia for Bone Graft Surgery. (Report of 83 Cases). Daniel C. Moore and John J. Bonica. Current Res. Anesth. 1950, 29: 43.

A combination of brachial block and spinal analgesia for bone graft surgery is described and the results with this technique in 83 cases are described. The Taylor method was used and successful results were obtained in 96 per cent of the cases. If the operations were below the elbow, ringing of the upper arm with a skin wheal for the tourniquet was unnecessary. In operations on the upper arm but below the surgical neck of the humerus, the intercostal brachial nerve must be blocked. A superficial cervical nerve and the intercostal brachial nerves should be blocked if the incision is to extend above the surgical neck.

For the brachial blocks and the intercostal brachial infiltration, 0.15 per cent pontocaine was used in 57 cases, procaine in 24, and metycaine in 2 cases. Dilutions of procaine and metycaine were not given. The procaine and metycaine were discarded because pontocaine afforded a more prolonged operating time. Up to 100 c.c. of pontocaine may be used with safety. Brachial block was done first, because it is a more prolonged procedure. Also, it requires a minimum of 30 minutes to obtain good analgesia and lasts longer than the spinal analgesia.

The spinal tap was done between the second and third lumbar vertebrae. The drug mixture employed was 1 c.c. of 1 per cent pontocaine, 1 c.c. of 10 per cent dextrose, and 0.2 c.c. (2 mgm.) of neosynephrin. The addition of small amounts of vasoconstrictors did not noticeably prolong the analgesia period. Larger amounts produced an adrenalin type of re-

action.

gesia was not notice vomiting were entirel were able to eat and do were no pulmonary not the operation, nor we series. The blood loss by transfusions.

The Use of Peridural of Saline Solutio Postspinal Head HARWELL DABBS.

Severe postlumbar I complication following anesthesia. The incide around 20 per cent.

Present views on physiologic factors are evidence lends support the primary cause of panism probably being volume resulting in dipain-sensitive intracra

As a result of thes instituted peridural in produce a splinting "I dural space in the attenthe subarachnoid peria fibrin seal to occlude"

Using both indwell peridural catheters a needle, an initial dose was injected into the is then rechecked in present an additional 3 is left in place and on jections are given if dramatic relief was obtained.

Two mechanisms af procedure: compression in the peridural space arachnoid pressure, who observed, and incread cessation of the flow of puncture sufficiently processes to occlude the

inde concentrations in with tetanus toxin. Joseph R. Wakar, M. Wakar, M. Joseph R. Wakar, M. Wak

rmal or low carbonrtmann's solution is as the latter tend to ue to the retention of loxide-combining cations are indicated.

TREATMENT OF

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iagnosis than tetanus.
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trin Treatment of Tettillina-siero antitossico troo Cioni and Giuseppe to, 63: 1037.

oup of 7 was treated

Systemic Bacitracin in the Treatment of Progressive Bacterial Synergistic Gangrene. Frank L. Meleney, Philip Shambaugh, and Robert S. Millen. Ann. Surg., 1950, 131: 129.

Progressive bacterial synergistic gangrene which is caused by a microaerophilic nonhemolytic streptococcus associated with a hemolytic staphylococcus aureus was first demonstrated in 1926. It is comparatively rare. Careful anaerobic cultural methods are necessary to find the offending organisms.

During the second or third week of the disease it takes on certain unmistakable clinical aspects, with severe pain and tenderness and a characteristic gross appearance. Centrally, there is a shaggy granulating ulcer surrounded by a "suede leather" gangrenous zone, a raised purple zone, and an outer erythematous zone.

The disease often starts about retention sutures in a wound following drainage of an empyema or peritoneal abscess, or about a colostomy or ileos-

tomy, but it need not be postoperative.

Until 1945, nothing except wide surgical excision could bring this infection under control. Sulfonamides are ineffective, and penicillin, although frequently curative, fails with penicillin-resistant organisms or in the presence of secondary contaminants capable of producing penicillinase.

The present article records 5 typical cases of progressive bacterial synergistic gangrene, 4 of which failed to respond to penicillin but all of which yielded promptly to the systemic administration of baci-

In Case 1, which occurred postoperatively, systemic administration of bacitracin brought the infection under control after the failure of penicillin, streptomycin, and sulfadiazine in large doses over a period of 4 months.

In Case 2 there was prompt response to systemic administration of bacitracin in an infection beginning in an abrasive wound, in which penicillin, streptomycin, and sulfadiazine had failed.

In Case 3 there was contamination of the lesions of mycosis fungoides, which responded promptly to bacitracin after other treatment had failed. There were some transient side effects of nephrotoxicity.

In Case 4 the gangrene developed around an ileostomy for ulcerative colitis with two simultaneous

ALLAN K. SWERSIE, M.D. lation. hemostasis, routine transfusions, and early ambuantibiotics, of the Foley bag, and of oxycel gauze for urethral bag, earlier removal of all tubes, the use of use of small tubes, earlier release of tension on the The improved results are believed to be due to the

J. Urol., Balt., 1952, 68: 724. Cases. George Bulkley and John W. Kearns. Analysis of Results of Prostatic Surgery in 866

the suprapuble group was 8.5 per cent, while in the 724 transurethral prostatic resections. Mortality in suprapubic prostatectomy and 632 were treated with During an 8 year period, 142 patients underwent

well as additional types of genitourinary abnormaligroups had associated lesions in other systems as A high percentage of patients in both clinical transurethral series only 1.4 per cent died.

plications in both groups occurred in the cardiovaslisted and discussed briefly. The most serious com-The complications after each type of operation are ties. These are enumerated in detail.

Patients in whom urinary extravasation was recogcular system.

nized and treated promptly had rapid and unevent-

scope and residual tissue is removed I week after the freely or completely is re-examined with the resectoin 58 patients. Any patient who is not urinating The initial transurethral resection was incomplete tul recovery.

avoid epididymitis and adequate meatotomy to pre-The authors recommend routine vasectomy to first procedure.

ORMOND S. CULP, M.D. vent postoperative strictures at the meatus.

DICK. Deut. med. Wschr., 1952, 77: 1112. Stoerungen im Descensus des Hodens). WALTER Disturbances in the Descent of the Testicle (Ueber

ent forms of disturbances in this process. physiologic descent of the testicles and the differ-The author discusses the mechanism of the

was restored. The reason is that the higher temwas brought back into the scrotum, spermatogenesis reversible. When, in the same animal, the testicle tion of the germinal epithelium. The process is spermatogenesis came to a stop, because of degeneratesticle was transferred into the abdominal cavity able to produce viable spermatozoa. мией тре that an intra-abdominal or inguinal testicle is not Very interesting animal experiments have shown

> K. SWERSIE, M.D. ostatic physiology. frselves in increas-

52, 68: 729. H. M. BURROS, and стошу, Јоѕерн С.

sed have numerous gress in this short Mogic residents 13 were submitted to Ly two series of pa-

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ibiotics are chosen esical drain are res become blocked. o c.c. volume. No raction is released -basid of the bleedsy be necessary to Only such traction eszer catheter and drain is placed in end Pezzer cathe-Suture through all om below upward water was usually swn into the protter were placed in was placed on the sed to remove any ek was inspected. atic cavity to congroups on a long interpressure was hen enucleated by ver the symphysis hemostat, drawn he Foley catheter y' emptied by sucched through the 'n filled with sterile ate solution after eter with a 30 c.c.

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naculum and the 'e ward and laterally, n incised and a forcil z cm. beneath the of the perineum, [T] neath the pubic at 🦖 Lollowing funiculo L to the bladder. [4] blunt dissection il urogenital triangles, anterior perineal By this techniqu approaching stons with that used biggin sion. The so-calle, and carried down acre is deemed too shorts in forms of intra-abcle the spermatic cor

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With reference ta

reason is the danger of malignant degeneration. puberty is imperative to ensure fertility. A further ment of intra-abdominal or inguinal testicle before From these observations, it follows that treatcoeundi, but is sterile because of aspermatogenesis. the secondary sex characteristics, including potentia man with bilateral cryptorchism may develop all its location in the abdominal cavity. Therefore, a ascribed to the interstitial cells, is not influenced by only; the secretory function of the testicle, which is for the testicle. This applies to spermatogenesis author puts it, the scrotum serves as a "cooling unit" a thermophore was applied to the scrotum. As the

dystopic testicle are one-hundred times higher than The chances that a carcinoma will develop in a

in a testicle in normal position.

mechanical obstacle. lateral the failure of descent is probably due to a in bilateral cryptorchism; if the cryptorchism is uni-This hormonal therapy should be applied especially Therapy with testicle hormone is contraindicated. testicle has not descended, surgery is indicated. weekly for a period of 6 to 8 weeks; if by this time the units of gonadotropic hormone are given twice pain it should be corrected surgically. Five hundred that time, an inguinal testicle causes discomfort or should be started at the age of ii only; if, before hormonal treatment with gonadotropic hormone same size as that of a boy one year old. Therefore, life; the testicle of the eleven-year-old boy has the the testicle is dormant during the first 11 years of mone of the anterior pituitary lobe. We know that the descensus is controlled by the gonadotropic hormonth of embryonal life; however, it is assumed that what causes the testicle to descend in the eighth mechanical or hormonal. Very little is known about The causes for failure of descent may be either

and is held in place as a button. testicle is passed through a gap in the tunica dartos tunica dartos and the dermis of the scrotum. The transfer of the testicle into a recess between the the onset of puberty. The author recommends Surgical correction should be done shortly before

or anitoronoph transfer to spermatogenesis can be expected at this time, and extirpated if the other one is normal because no In adult age an undescended testicle should be it in place and risk carcinomatous degeneration. extirpate an atrophic testicle rather than to leave of shortness of the vessels, then it is preferable to to bring the testicle down into the scrotum because If the retention is unlateral and it is impossible

170 ml. Within the error of the method these variarecovery was 147 ml. with a range of from 125 to

the volume change was possible, 100 per cent of the In the other case, in which a precise estimate of tions cannot be considered significant.

it was seen that at the end of 3 hours the bulk of the in which 150 ml. of water were introduced, however, introduced fluid was recovered. In the experiments

In 5 experiments with urine introduced at acid pH water had been absorbed.

an alkaline reaction (ph 7.2 to 7.6) despite the known between 4.9 and 5.4 there was a striking change to

there was an increase of 32 mgm. per 100 ml., and in the concentration changes. In the first experiment ments, showed the following: conflicting results in liter. Ammonia, estimated in only 2 of the experi-The fluids withdrawn contained 27 and 8 mEq. per urine instilled was not more than I mEq. per liter. The bicarbonate content of the acid spectively. from 21 to 24 mEq. and from 33 to 44 mEq., retrations. In 2 experiments the concentration rose was no appreciable change in the potassium concenlarge excess of that of sodium. In I experiment there with urine there was an absorption of chloride in The authors conclude that in all the experiments powerful buffering properties of urine.

from 2,400 to 1,200 mgm. per 100 ml. The uric acid from 1,700 to 400 mgm. per 100 ml. and in the other striking decrease in concentration, in t experiment Information as to urea concentration showed a the second a decrease of 61 mgm. per 100 ml.

showed no appreciable change in concentration.

changes in these and other constituents. a greater absorption of chloride than of sodium, and solutions instilled in these segments of bowel showed changes in the constituents of the urine in saline In summarizing their work the authors state that

(Surg. Gyn. Obst., 1951, 93: 691). article by J. Lapides for an illuminating experiment The authors suggest that the reader review an

PAUL R. LEBERMAN, M.D.

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BEENNAN, M.D.

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M. K. ALEXANDER. o Ureterosigmoid trolytes from the

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SURGERY OF THE BONES, JOINTS, MUn,

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The Painful Shole (s. 1871)
Australia, 1952 L : 21 NE S UP

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Fibrositis may sm? si obscure conditionsalls wolved in the profulling Attention has le &

two factors, one all chopathic features qus salicylic acid shou bill frequently found found tonic tervals of a few dille but repeated injeccr relief. Several zosho Sain's solution intological feel indurated. Toor's of the muscles wile, 3 the which reproduces melis rhomboids, giving and

lesions within the the in the shoulder ry, factors in the causilo patient or relatives, former may occas, ix other an abnormal gle

or secondary) of the osteoarthritis, tubee th the cord or nerve re zoster; (2) verteble adhesive spinal arally vical cord tumor, ord

The strong that of min

brachial plexus lesuas:

MUSCLES, TENDONS, ETC. CONDITIONS OF THE BONES, JOINTS,

HOWARD. Med. Clin. N. America, 1952, 36: 1289. Neck and Shoulder Pain Syndromes. Louis G.

der, and pathologic conditions in either area may neck. Lesions in the neck may refer pain to the shoulclusive. Lesions in the shoulder may refer pain to the plexus comprises the nerve roots of C 5 to T 1, inand between C 1 and the skull. Usually the brachial roots come out of all lateral intervertebral foramina and C I or between C I and 2. However, nerve girdle. There is no intervertebral disc between the skull the cervical spine and from the skull to the shoulder vical spine to the shoulder girdle, from the skull to another by ligaments and by muscles from the cerbrae are maintained in mobile relation with one treatment. Anatomically, the seven cervical verteneck and shoulder pain, as well as their diagnosis and The authors review the more common causes of

paque myelography will almost always determine painstaking neurological examination, and pantocommon and often confusing. A careful history, a Reflex changes are common and pain reflexes are present. Muscular fibrillation frequently is found. the hand and ingers. Muscular atrophy may be over the shoulder, or down the arm and forearm to reference of the pain to the base of the neck, out vical spine may produce a brachial neuritis with distribution. A tumor in the lower half of the cersymptoms which, however, are also segmental in within the spinal cord itself may produce bizarre pain of a segmental distribution. Tumors or disease Tumors within the cervical spinal canal result in institute purely local pain.

sid in the treatment as well as in the diagnosis. fore head traction gives great relief and is a major by downward vertical pressure upon the skull; thereto the interscapular area. Pain may be increased be referred segmentally to the shoulder and arm or may cause local neck pain. However, the pain may vertical thinning permit nerve root pressure which the lower half. Disc degeneration and subsequent vical spine is common and occurs most frequently in Degeneration of an intervertebral disc in the certhe presence of a cord tumor.

ARITHANAD MARANING OR OSE DESECT SECON TO high enough to interfere with respiration. In the Cancer of the cervical spine may cause death if

The Diagnosis and Treatment of Scapulocostal Syndrome. A. S. Russek. J. Am. Med. Ass., 1952,

scapula or in the suspending muscles of the scapula either in the extremely sensitive tissues beneath the peripheral stimulus. The stimuli may originate segmental basis, depending on the level of the radiation apparently is of reflex nature on a cord and shoulder pain may be minimal or absent. The ushed, the radiation zones become the painful areas and scapular pain are prominent. When well estab-In the early symptoms of this syndrome, shoulder

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side, tall into this group. shoulders to sag and the head to be drawn to one proper. Those who use high pillows, allowing the These are the patients whose bed posture is imin the morning and they improve through the day. tients, however, have the greatest amount of pain worse toward the end of the day's work. Some pamorning, the symptoms becoming progressively mary type of this syndrome have no pain in the factor in these cases. Most patients with the pritheir faulty posture. Fatigue is a very prominent These are the patients who can voluntarily correct responsible for setting up the pattern of symptoms. changing angle of the ribs, for a prolonged period, is the retracted scapula in its new position against the chauffeurs, and machine operators. The poor fit of siffing habits often seen among physicians, typists, scapulae to slide laterally, or to poor occupational allowing the shoulders to roll forward and the rated. The condition may be due to habitual slouch, (35 to 60) among those whose posture has deteriostatic type. The primary type occurs in middle age The syndrome can be of primary, secondary, or

history of each form is presented. injection of the trigger points. A representative case relationship by physical or mechanical means after on the elimination of the altered scapulothoracic The treatment is briefly outlined with emphasis

C. Fred Goeringer, M.D.

Chronic Sclerosing Perisynovitis of the Dorsum of

2 mg., 1952, 22: 70. the Hand. G. McKenzie. Austral. N. Zealand J.

function to make & change of occurration nacesery in some cases by enough permanent impairment of severe, is followed by a long period of incapacity, and Frequently trauma, which would not be described as parently minor injury to the hand is well known. The degree of disability which may follow an ap-

> ography will demto impairment of tein content of the uncture will reveal arising therefrom lesser extent, and

rentiate from that nmon cause. The be due to tubercutrophic type may

sixth and seventh noisuratord to stie i sug due to comglocal nerve roots the disc. In the a central or, more

oots by the osteohe pain in this case t be demonstrated. triceps, and some strable wasting of "ertebral disc pro-

all. hd symptoms ireeffect from it; the -tve oingraphic evi-

ent should be for-The carrying of ation therapy to he shoulder girdle a by exercises dechanges may also neurological signs y affected in rightbe bilateral, but tral. In these unithe upper part of thecting the hand ant tingling sensaof the menopause. esthesia is usually

b onset of the first 'pe second phase, swelling and stiffither a sudden or tyilidasib lutaisq syndrome," three

the picture. The addition of the 2 sition. Live, brion, te vide satisfactory !

teric fossa. Externod like Medullary nailing(16, ar femur which had id cha lines. In all the clear, formed on relativet as in spain an osteogenetic kol the transplant will.e. a true defect is tod. Conditions are unitens ities, in arthrodesillin inivianide spirit Such conditions arrival what we might con? oc and in boos as a constant of the standard o anost as good it nother as Experience indiche

Influence will also used in the description at the the moistain to absorption of the men are dislodesed into e^{0.0} at a standard branding and standard influence from also up of the standard influence will also up of the standard in the standard i that the entire circon. To avoid this kind net osteogenesis. The n " ing. medullary fixations all safe missing variabing weilitham

hernia. The specir...s. died a weeks prevsie was removed fron tl A 2.5 centimeter be it of the femur, whice right He was hospitalizhty ture in the middle e the operations, in whr, no the patient suffereral defect in the humilious had occasion to opis at During the cours in i Alexanta in a serior in a se threat of absorptial t ule sign stromod and

> turbance, particularly in tissues subject to movecyst. There may be an associated circulatory disfibrous tissue; in other circumstances it may form a certain circumstances, become organized and form one. In most cases a hematoma resolves. It may, in asation of blood is a factor but it cannot be the only mechanical one. There is much to suggest that extrav-

case has been minimal. similarity in pathology, although disability in this seems probable. A fourth case is added because of the In a of them permanent impairment of function dorsum has resulted in several months of disability. 3 cases in which a comparatively slight injury to the A special group of these conditions is illustrated by

The prognosis is poor in that persistence or recur-

Excision of the abrous tissue was followed by some rence of the condition is often seen.

dressing. C. Fred Goeringer, M.D. be secured, and the application of a pressure without a tourniquet so that all severed vessels may the tissues after operation. This requires dissection reduce the amount of extravasated blood present in is to be carried out, every attempt should be made to extravasation of blood following excision. If excision to be expected that organization may occur in any hematoma has occurred following an injury it is only tensive. In a subject in whom organization of a the 2 cases in which the dissection was most exevidence of recurrence in 2 cases of the 4. They were

MUSCLES, TENDONS, ETC. SURGERY OF THE BONES, JOINTS,

IVAR PALMER. Acta chir. scand., 1952, 103: 381. Surgical Treatment of Defects of the Long Bones.

ring resembling a capsule. Finally there is the deand in which the whole is surrounded by a fibrous real joint cavity containing mucous, synovialike fluid arthrosis in which the fragments are separated by a minimum of mobility, and there is the mobile pseudare joined by stiff fibrous tissue permitting only the is the firm pseudarthrosis, in which the fragments between the different forms of pseudarthrosis. There pseudarthrosis. It is also necessary to distinguish ferentiate between delayed healing and manifest cases of nonunion of fractures, it is essential to difincorporation of the graft has been achieved. In and maintain osteogenesis until consolidation with purpose: to bring about fixation and to reanimate of one kind or another. The operation has a twofold Pseudarthrosis is usually treated by bone grafting

humerus.

grafts, or in the epiphysial or metaphyseal areas. Obst., 1930, 51: 283), or by onlay or apposition by screws or by sliding grafts (Albee: Surg. Gyn. mit of the employment of fixation of the transplant fragility and atrophy of the bone stumps do not percallus. This method can, at most, be used when the able effects of weight-bearing on the formation of ends apart in such a manner as to impede the favorplement of bone substance and holding the fracture and marrow structures, representing but meager supvascular insufficiency by destroying the endosteum technique. He regards this form of graft as favoring of using the intramedullary splinting (infibulation)

tus. Such measures are precarious in the femur and in the tibia, in the radius, and eventually in the cubimost successful use of the metallic protheses is seen tion screws applied in an oblique direction. that a more secure hold is obtained with the retennot forget the pronouncement of Merle D'Aubigné timum toleration by the tissues. Here one should vantageous in that it combines valid usage with opwire, or screws. The vitallium screw is doubly adplant can be fixed by means of catgut, silk, steel bone graft of Campbell-Henderson. Such a transmore recent approval and use is the massive single substance; it is, however, a delicate procedure. Of methods, is excellent when there is no loss of bone The autotransplant, performed by sliding-graft

lesser measure—the humerus, preferably in instances used for the tibia, the radius, the cubitus, and-in rior in most usages to the sliding graft. It may be The author believes that the onlay graft is supe-

For the double radioulnar pseudarthroses, the of loss of bone substance.

osteoperiosteal grait. and others—with reference to the superiority of the supports the views of Albee-and against Talbot active osteoformative bone substance. The author 40: 545; Inst. Abst. Surg., 1947, 84: 474) for a more and from the ala ilii (L. Tavernier. Lyon chir., 1946, may be from the tibia when more support is desired stance should be provided with the transplant, which od, however, it is believed that plenty of bone subwithout loss of bone substance. Whatever the methwith metallic prothesis, either in instances with or experience with the methods of transplant combined plate with screws on the cubitus. He has had little author prefers the sliding graft for the radius, and a

favor of the more modern techniques. Experience repudiates the use of plates and bands of metal in With reference to metallic prostheses, the author

> Соекімсек, М.D. ned by absorptive before the homobe formed within of the homotransone in the defect condition for sucthey are able to xert a remarkably cancellous auto-

1106. med., 1952, 17: altrui; conclusioni). materiale; considetrosi diafisarie delle hers; Conclusions Personal Methods of Personal Mates of the Diaphysis

mple or intected thor intends those as of the ulna. By throsis of the rafigure and ulna; 5 of the humerus; 3 pseudarthrosis, 12 ingenital pseudarteomyeliticpseudmyelitic pseudarthe femur; 23 of character. There it permits of few ded by the nature ts in all to 42 cases d by the Instituto

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position is described.

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Fig. 1 (Peacock). The internal splint immobilizing the finger in the desired position.

nail in the tibia is of doubtful value; here one should give preference to a graft fastened with screws, to a siding bone graft or, eventually, to a metallic plate. It is the author's impression that more satisfactory results with the Kuntscher nail will be achieved if the surgeon provides plenty of osteoformative bone substance (bone chips, grafting) at the point of

ЈОНИ М. ВКЕИИАИ, М.D. tion in the presence of a congenital pseudarthrosis. trom the day when many surgeons advised amputacess is duite frequently attained and it is a "far cry" ing, will give prospects of cure. Here, however, sucor exomedullary (Lane plate) form of metallic brachaps aided by a centromedullary (nail of Delitala) mentation of osteoformative bone substance, persufficiency is suspected, only the abundant suppleital pseudarthroses, where some form of vascular inand the aid of the antibiotics. Likewise, in congentation of bone substance, careful local protection, can offer good results—with abundant supplemenonly the autogenous graft or autoplastic fixations periosteal resections of the tibia for osteomyelitis, humerus, tibia, and cubitus; however, for the sub-The metallic plate is most frequently used on the pseudarthrosis.

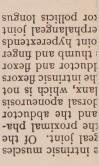
Dynamic Splinting for the Prevention and Correction of Hand Deformities. A Simple and Inexpensive Method. Erle E. Peacock, Jr. J. Bone Surg., 1952, 34-A: 785.

Drop-finger at the distal joint or mallet finger from injury is due to a tendon rupture at the insertion of



Fig. 2 (Littler). Showing the union of the index meta-carpophalangeal segment and a special intermetacarpal Kirschner wire distraction splint in position.

bone chips cut from the anterior part of the iliac crest are employed to fill the remaining space of the acetabulum. After closure of the wound a double plaster hip spica is applied with the limb still in



I well illustrated.

Соекінсек, М.D.

W. H. KIRKALDY-

perience with sbce 1947 when this Watson-Jones and ic department of fure may be indithe femoral neck, of the hip which erapy, in immoperations, in cases femur have been ip not responding treatment, and in

hip. ough an anterior read, or head and seased bone, and moved. With the tissue is removed at trochanter are to 45 degrees and



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The following ne by is recommended by e c bunions, c c c Roentgenogramed

splint is applied in the After the oper the phalanx. muscle is attachedrom sule is sutured winto correct position, tby ment. The sesan circ of the sectioned kinc wedge-shaped osteher removed with agn, exostosis of the hon, metatarsophalangple close to its insertition priliucis muscle isis (excised through a con Under local anceri wedge to be excisener the operation is ding

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abduction. About 4 weeks later, the femur is divided (through a lateral incision) about 2 inches below its upper end. The leg is adducted to lie betion. The wound is closed and the hip spica is responded. In 14 of 16 patients operated on in 4 years, complete and bony fusion was obtained.

Kenneth E. Sherman, M.D.

Experiences in the Treatment of Perthes' Disease with Pitzen Nailing of the Femoral Neck (Unsere bisherigen Erfahrungen in der Behandlung der Perthesschen Erkrankung mit der Schenkelhalsnagelung nach Pitzen). Haubere and Matthibaling schw. Orthop., 1952, 82: 436.

At best, the present way of treating Perthes' disease is not too satisfactory. The disadvantage is the prolonged treatment consisting of immobilization by bed rest and traction, by hip spica, or by a modified type of ambulatory traction. The literature indicates that the average duration of treatment has changed considerably in the past so years without producing any conclusive results.

Eighty-six cases were reviewed; 67 boys and 19 girls were treated between the years of 1925 and the treated between the years of 1925 and the literature. The suthors report 12 cases in which of of the patients were treated by the Pitzen femoral nailing method and the other 6 were treated along conservative lines. The cases were subdivided in three groups. Those in group 1 presented the early stages of the disease, consisting of the femoral head. Those in the second group presented the more active phase of the disease with disintegration of the said those in the third group presented the more active phase.

In all of the cases early changes were noted. No definite explanation as to why the nailing enhanced the healing of the processes was offered. The authors did not try to enter the femoral capital the epiphysis with the nail, but were satisfied to reach the epiphysis with the tip of the nail. They believe that the nail causes an irritation of the epiphysis and the surrounding area which helps the revascularization of the process.

Osteoplastic Arthrotomy of the Knee Joint (Gran artrotomia osteoplastica de la rodilla). Eurique Hernandez Lopez. Civ. ap. locomotov, Madr., 1952, 9: 184.